



## Northwestern Division Convention

**“The Second Century Starts Here”**



Photo © City of Seaside Visitors Bureau

## Seaside Convention Center

**Seaside, Oregon**

**June 5, 6 and 7, 2015**

**[www.seapac.org](http://www.seapac.org)**



**Sponsored by the Oregon Tualatin Valley Amateur Radio Club**

**Co-sponsored by the Clark County Amateur Radio Club**

# Welcome to SEA-PAC!

It is our pleasure to welcome you to *SEA-PAC*, the premier Ham Convention in the Northwest. While it is always hard to improve on the fantastic work of past events, the Sea-Pac committee is committed to making your visit with us both pleasurable and memorable. Some subtle changes are made each year as we continue to grow with new technology and experience.

This past year has also seen much growth and awareness of our hobby. The ranks of amateur radio are at an all-time high and recent disasters have highlighted the continuing need for "Hams" to respond. At the end of 2014 the number of amateurs had risen to 726,275 in the US. In the early part of 2015 the number stood at more than 727,000. "When all else fails, call on a Ham" is seen on some T-shirts. The hams of the world have always stepped up in the time of need and provided that much needed communication link. We are also seeing more interest from younger people as they find that amateur radio is not only fun, but also educational. Whether that be "rag chewing" with someone in another country or building "homebrew" equipment. Yes, "home brewing" still exists and there are some wonderful kits available.

So, as we embark on year 33, please know that your continued support for *SEA-PAC* is greatly appreciated. We remain proud of our history and that our attendees come not only from Oregon, but from Washington, Idaho, Montana, Northern California, and Canada. Thank you all for your fantastic support!

Co-sponsored by the Clark County Amateur Radio Club with assistance by other area clubs.

*Herbert L. Hirst*

Herbert L. Hirst, K7HLH  
President  
Oregon Tualatin Valley Amateur Radio Club  
*SEA-PAC* Convention Sponsoring Club



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## V.E. EXAM SESSION

*Amateur License Exams at Our Savior's Lutheran Church—East Parish Hall  
(North — across the street from the Convention Center)*

*One Session—Saturday at 9 AM*

*Pre-registration requested. Walk-ins — Space Available*

## SEA-PAC WELCOMES OUR ARRL GUESTS

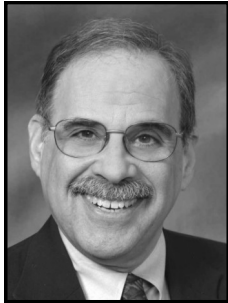


**James E. (Jim) Fenstermaker, K9JF**, was elected ARRL Second Vice President in January 2014. He is a retired CPA, and was the Northwestern Division Vice Director and Director for a combined fifteen years. He served on many ARRL committees including Finance & Administration (as chair), Executive, Programs & Services, and Grassroots/Legislative Action. Currently, Jim is the chairperson of the League's Strategic Planning committee and is a member of the HF Band Planning Committee. In addition, he has been a board member of the ARRL Foundation for eight years. He has been an ARRL member for 50 years. An avid contester and DXer with 368 DXCC entities confirmed, Jim is included among those holding #1 DXCC Honor Roll - all current DXCC entities worked and confirmed.



**Ed Hare, W1RFI**, is employed by ARRL, the National Association for Amateur Radio. After an industry career in product testing, he came to work at ARRL HQ in 1986. He started as ARRL's "Product Review" test engineer, moved on to becoming ARRL's "RFI guru" (notice his call!) and he now holds the position of Laboratory Manager. Over the years he has written quite a number of RFI articles, ranging from articles for *QST* and the *ARRL Handbook* to articles about the practical aspects of RFI that have appeared in professional trade journals. He is also one of the editors and authors of the ARRL *"RFI Book"* and the author of the ARRL's book on RF exposure, *"RF Exposure and You."* He is very active holding a seat for Amateur Radio on various industry committees, serving as a voting membership on the IEEE EMC Society Standards Development and Education Committee, the ANSI accredited C63<sup>®</sup> EMC Committee as Vice Chair of Subcommittee 5 on Immunity, a member of the IEEE Connecticut Section and others, representing ARRL and the interests of Amateur Radio as industry standards are developed. He is a member of the IEEE Standards Association, the IEEE EMC Society and the Power Engineering Society. His personal operating interest is QRP CW, where Ed's motto is, "Five Watts is a Lot of Power!" He is presently doing work on HF using 10 milliwatts, reporting 30 states worked, all in the ARRL CW Sweepstakes.

## SEA-PAC WELCOMES OUR ARRL GUESTS

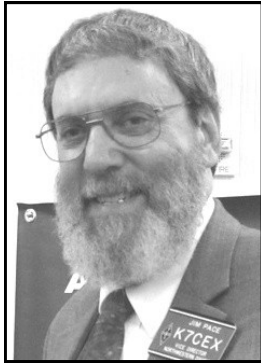


**Harold Kramer, WJ1B**, joined the ARRL, the national association for Amateur Radio, as its Chief Operating Officer and Publisher of QST in February 2005. He currently holds an Amateur Extra Class License and an FCC General Radiotelephone Operators License (GROL). He also writes the monthly "Inside HQ" column in QST. He is a lifelong Amateur Radio operator who was first licensed in 1962 as KN1ZCK. He is currently an ARRL Official Emergency Station (OES), an ARRL Volunteer Examiner and an ARRL Life Member. He was formerly an Emergency Coordinator (EC) for the ARRL in South Central Connecticut. His principal Amateur Radio focus has been on emergency and public service communications and he holds emergency communications certifications from the ARRL and from FEMA. Before joining the ARRL, Harold spent his entire career in the cable television and broadcast industries. Prior to joining the ARRL, he was the Chief Technology Officer and Vice President of Connecticut Public Broadcasting, Inc. in Hartford, Connecticut. Before holding that position, he was a Director of Public Affairs and Advertising for SBC (now AT&T) Corporation's cable television service. He has been an adjunct faculty member at the University of Hartford and other local colleges where he has taught courses in communications and electronics. A lifelong Connecticut resident, Harold lives in Cheshire, Connecticut with his wife Karen, where he has been an elected Planning and Zoning Commissioner and he has held other appointments in the Cheshire Town Government. He holds an A.A.S. degree in Electronic Technology from the University of Hartford, a B.A. in English and M.A. in Education from the University of Connecticut.



**Diane Petrilli, KB1RNF**, is Membership Manager for ARRL – The National Association for Amateur Radio. Since November 2008, she has been responsible for programs and activities that directly affect membership growth, engagement, and retention. Her previous experience in marketing and membership management includes nine years working at the Connecticut Bar Association. Diane holds a BS in Business Administration from Alfred University and an MBA from the University of Connecticut with a concentration in Marketing. Diane is a self-proclaimed "fanatical" water skier, and she and her husband Christian enjoy all outdoor activities as well as attending concerts.

## SEA-PAC WELCOMES OUR NWD GUESTS



### **James (Jim) D. Pace, K7CEX, ARRL Northwestern Division**

**Director** has been an advocate for Amateur Radio, for 58 years, since getting his first license in 1957. Jim served as an OES, DEC, SEC and ASM in Western Washington, gaining experience and working his way up to Section Manager and Washington State RACES Officer. While working as SM and SRO, Jim worked hard to develop good relationships between Western Washington Amateur Radio and our served agencies, such as: Department of Natural Resources, FEMA Region 10 RF Division, Washington Emergency Management Division, Washington State Patrol and State Guard, and many others including our County Emergency Managers. While serving as SRO, Jim formed an EmComm

working group with membership from all three State MARS units, FEMA Region 10, State EMD and ARES, to foster a working arrangement between the organizations. On January 1, 2013, Jim started new chapter in his Ham Radio career, as the Vice Director of the ARRL Northwestern Division. On January 1, 2014 he became the Director when Jim Fenstermaker, the former NW Division Director was elected as the Second Vice President of ARRL. Jim currently not only serves as NW Division Director, but also serves on the ARRL Administration and Finance Committee, CEO Search Committee and chairs the Legal Defense and Programs Committee. The ARRL Board members also elected Jim to the ARRL Foundation Board, which oversees annual Grants and Scholarships awarded, promoting Amateur Radio and the post-secondary education of Science, Medicine and Engineering.



### **Bonnie Altus, AB7ZQ, ARRL Northwestern Division Vice-**

**Director**, works as an instructor and department chair for the Health Information Management program at Portland Community College. She has worked in education for 7 years and in the healthcare field for 24 years. Bonnie was first licensed in 1997 while working as a hospital information systems and telecommunications manager. She upgraded to an extra class license during 1998. Bonnie was elected as the Oregon Section Manager in 2006 and served in that position until appointed to complete a term as the Northwestern Division Vice Director in 2014. Prior to serving in ARRL elected positions, she was an ARES Emergency Coordinator

and Assistant Emergency Coordinator in Yamhill County and a president of the McMinnville Amateur Radio Club. She has been the net manager and net control for various nets. ARES and other emergency preparedness activities have been her primary interest in ham radio and she is actively involved in ARES and club activities in Yamhill and Polk Counties. She has a B.S. degree in Business Education from Cal State LA and an M.S. degree in Information Management from University of Oregon.

# SCHEDULE OF EVENTS

## Friday, June 5

<b>Friday Workshop: EmComm Leadership</b> (Conv Ctr).....	8:30 AM - 5:00 PM
<b>Friday Workshop: Antennas</b> (Shilo Inn) .....	9:00 AM - 5:00 PM
Registration Open .....	11:00 AM- 8:00 PM
Exhibitor/Flea Market Set-Up .....	11:00 AM - 8:00 PM
<b>Friday Workshops Lunch</b> (Shilo Inn).....	12:00 Noon

## Saturday, June 6

Exhibitor/Flea Market Set-Up.....	7:30 AM - 9:00 AM
<b>Registration Open</b> .....	8:00 AM - 4:30 PM
<b>VE Exams</b> (Pre-registered).....	9:00 AM
(Our Saviour's Lutheran Church - East Parish Hall)	
<b>Exhibits &amp; Flea Market Open</b> .....	9:00 AM - 4:30 PM
Snack Bar.....	9:00 AM - 4:30 PM
<b>Seminars</b> (Convention Center).....	10:00 AM - 5:00 PM
<b>Hourly Prizes</b> .....	10:00 AM - 3:00 PM
<b>YL Luncheon</b> (Shilo Inn).....	11:30 AM - 12:45 PM
With Cheryl Muhr, NØWBV, <i>"If I ever Get Bored With This Hobby... It will Be My Own Fault"</i>	
<b>DX Luncheon</b> (Shilo Inn).....	11:30 AM - 12:45 PM
With Budd Drummond, W3FF, <i>"From The Other End Of The Pileup"</i>	
<b>ARRL Forum</b> (Seaside B).....	1:00 PM - 2:00 PM
<b>SEA-PAC Prizes</b> .....	2:30 PM—3:00 PM
Pre-Banquet Happy Hour.....	6:30 PM - 7:15 PM
<b>SEA-PAC Banquet</b> (Convention Center).....	7:15 PM - 9:30 PM
With Ben Moses, W6FY, <i>"The Places Amateur Radio Has Taken Me"</i>	

## Sunday, June 7

Registration.....	8:30 AM - 12:00 Noon
<b>Exhibits &amp; Flea Market Open</b> .....	9:00 AM - 12:00 Noon
<b>Hourly Prizes</b> .....	9:00 AM - 11:00 AM
<b>Seminars</b> (Convention Center) .....	10:00 AM - 12:00 Noon
Snack Bar.....	9:30 AM - 2:00 PM
<b>Major Prizes</b> (Convention Center) .....	1:00 PM - 2:00 PM
Convention Closes.....	2:00 PM

# BANQUET

**SEA-PAC** is very pleased to welcome  
**Ben Moses, W6FY**  
**“The Places Amateur Radio Has Taken Me.”**



**Ben Moses, W6FY**, is a documentary filmmaker, television producer, director, writer, and moviemaker. He is the creator of “Good Morning, Vietnam” and a recent documentary about dictators and activists entitled “A Whisper to a Roar.”

Raised in a farm town in southern Illinois, amateur radio introduced him to the world beyond his hometown. Ben earned his first “ham radio” license at the age of ten and his First Class Television Engineering License at the age of 16. He attributes his career in radio/TV and film to his early love of ham radio.

In the late ‘70s, after several years at CBS News in New York, Ben moved to Los Angeles to work on Barry Manilow's first television special as associate director. Then he joined the production team that produced the Academy Awards, Emmy Awards and Grammy Awards specials as a stage manager, and was associate director on many live TV specials for CBS, ABC and NBC. In the years since, he has produced a number of motion pictures and has won eight Emmys for television programs he has produced and directed.

Through all those years Ben has remained an active ham, because he says, “Getting on the air has always felt like I'm joining an already-in-progress social gathering where I'm likely to run into someone I know and sure to meet new people and make new friends around the world.”



# BANQUET

## **SEA-PAC Banquet Entertainment** **"Woodlander"**



**Woodlander** is a longstanding musical brotherhood, a trio of musicians who have played together since the 1970s. Their music is an upbeat blend of folk, bluegrass, Cajun, swing, and reggae, among other roots of Americana music.

**Woodlander** consists of **Kerry Canfield** on upright bass and accordion, **Paul Douglas** on guitar, fiddle and harmonica, and **Will Hobbs/WI7O** on guitar, mandolin, harmonica and flute. All three write and Will has several local and national songwriting and lyric competition wins to his credit. They perform on a variety of instruments (guitars, fiddle, mandolin, harmonicas, ukulele, bass, flute) with rich three-part harmonies, a strong repertoire of original songs and a well-developed talent for entertaining their audiences.

### **BANQUET PRIZES**

- Macy's Gift Cards
- Samsung Galaxy Tab 3 Reader w/7" screen
- Sony Blue-Ray Disc/DVD Player
- Yaesu VX-6R Tri-Band (2/220/440) HT

*If you enjoyed the  
ARRL "Centennial  
QSO Party" activities,  
then standby  
for an exciting  
event in 2016!!*

*Banquet Master of Ceremonies: Everett Curry, W6ABM*

# EXHIBITORS

AE9RB Radio Kits  
 Alpha Antenna  
 Amateur Radio Relay Group (ARRG)  
 ARCOM Communications  
 Arlan Communications  
 ARRL  
 Battery Tech West  
 Buddipole  
 Celmor  
 DC Power  
 Disaster Guy  
 Elecraft  
 Elk Antennas  
 Expert Linears America, LLC  
 Flex Radio Systems  
 FUE Enterprises  
 Ham Radio Outlet (HRO)  
 HamRadioSchool.com  
 Ham Radio Websites  
 Hi-Tech Liquidators  
 Hip Ham Shirts  
 Hi-Q Antennas  
 ICOM America  
 J Poles  
 Just for Fun  
 Kenwood USA  
 Larry's Antennas, LLC  
 Navy-Marine Corps MARS

NW Digital Radio  
 Pacific Amateur Radio Guild (PARG)  
 Portable Rotation  
 Precise RF  
 Rescue Tape NW  
 STARS (Seaside Tsunami ARS)  
 SteppIR  
 Suzie Solar  
 Tac-Comm  
 TAPR  
 Thrive  
 Ventenna  
 Western Case  
 Willamette Valley DX Club  
 Wired Communications  
 Yaesu USA  
 Young Ladies Radio League (YLRL)

## The 7th Annual STARS/SEARC

### All You Can Eat Spaghetti Dinner

Everyone Welcome

Friday, June 5, 2015  
from 5:00 p.m. to 8:00 p.m.

Bob Chisholm Center,  
1225 Avenue A, Seaside, OR

Adults \$8 Children 7-12 \$6  
\$1 off admission with proof of Ham  
license or ~~SEA-PAC~~ Registration.

*(This is not a ~~SEA-PAC~~ sponsored event)*

*Due to publication deadlines we apologize for any changes or omissions.*

# PRIZE DONORS

## Prizes Donated By

AE9RB Radio Kits  
 Alpha Antenna  
 ARCOM Communications  
 Battery Tech West  
 Buddipole Antennas  
 DC Power, LLC  
 DX Engineering  
 Elk Antennas  
 Expert Linears America, LLC  
 FUE Enterprises  
 Ham Radio Outlet (HRO)  
 Ham Radio School  
 Hot Press Ham Hats  
 High Tech Liquidators  
 ICOM America  
 Kenwood USA  
 Larry's Antennas, LLC  
 Portable Rotation  
 Precise RF  
 Pulse/Larson Electronics  
 Rescue Tape NW  
 SteppIR  
 Tigertronics  
 Ventenna  
 Western Case Company  
 Wired Communications  
 Yaesu USA

## Merchants Donating Prizes

### Seaside OR

Best Western Ocean View Resorts  
 Bigfoot's Steak House  
 Camp 18 Restaurant & Gift Shop  
 Dooger's Seafood & Grill  
 Escape Lodging  
 Holiday Inn Express Hotel and Suites  
 Inn at Seaside  
 Motel 6 at Seaside  
 Norma's Seafood & Steak  
 Pig 'N Pancake  
 Portland Fudge  
 Sam's Seaside Café  
 Seaside Chamber of Commerce  
 Seaside Helicopters  
 Shilo Inns Suites Hotel  
 The Buzz on Broadway  
 Pizza Harbor

### Nehalem OR

Nehalem Bay Wines

### Portland OR

Outback Steak House

*Please express your appreciation  
to the many dedicated volunteers,  
vendors, and flea-marketers that  
made SEA-PAC 2015 possible.*

*The SEA-PAC committees are listed on  
page 34.*

*Due to publication deadlines we apologize for any changes or omissions.*

# Prizes

**ALL PRIZES SUBJECT TO CHANGE**  
**Sunday, 1:00 - 2:00 pm**

## Major Prizes

- **Buddipole** - Buddistick Antenna
- **DX Engineering** - Crimp Tool Kit
- **Elk Antenna** - Antenna
- **Expert Linears** - Gift Certificate
- **GoPro** - Hero Action Camera
- **ICOM** - Gift Certificates
- **ICOM** - 718 HF Transceiver
- **Kenwood** TH-F6A Tri-Band HT
- **Kenwood** TS-590SG HF/50 MHz Transceiver
- **Portable Rotation** - Screwdriver Antenna Memory Controller
- **Samsung** - 32" LED HDTV
- **SteppIR** - SARK 110 Antenna Analyzer
- **SteppIR** - CrankIR Vertical Antenna
- **Tigertronics** - SignalLink USB Sound Card - Radio Interface
- **Vizio** - 55" 1080 HDTV Smart TV
- **Yaesu** - FT-2DR Dual Band Analog & Digital HT
- **Yaesu** - FTM-400DR Dual Band Analog & Digital Mobile

## Major Prizes

*Need not be present*

- **Kenwood** - TH-K20A 2M HT
- **Icom** - KC-T70A Dual Band
- **Wouxun** - KG-UV3-2D Dual Band HT
- **Yaesu** - FT-1DR Dual Band Analog & Digital HT

## Early Bird

*Need not be present*

*Registrations received by April 15, 2015*

- **DX Engineering** - Crimp Tool Kit
- **Icom** - V80-Sport 2M HT
- **Kenwood** - TH-D72A Dual Band HT
- **Powerwerx** - KG-UV-3D Dual Band HT
- **Yaesu** - FT-8800R Dual Band Mobile



Like **SEA-PAC**  
on Facebook!

Follow **SEA-PAC**  
on Twitter!  
(@SEAPACatSEASIDE)



Hourly prizes posted for two hours in the lobby and on stage. Each hourly drawing will include a Baofeng UV-82L Dual Band HT w/speaker Mic

**Monte L. Simpson, K2MLS**  
**Western Washington Section Manager**

**Monte Simpson, AF7PQ**, was first licensed as a Technician in 1992 as KB7RID, he then upgraded in 2007 to General and to Extra in April 2015. For over 20 years he has been an active operator, promoting Amateur Radio and the ARRL at every opportunity. He served as an AEC, EC, DEC, ASEC, OO and ASM in Western Washington. He is member of the VHF/UHF Century Club (VUCC). As Section Manager, he works hard to strengthen Amateur Radio in Western Washington. The ARES program is head and shoulders above other programs in the country. Our OO program is the most active in the nation, logging several hundred hours of monitoring each month. The Technical Specialist program has transformed into a Technical Assistance program, for the benefit of all Hams - new or old. He believes the health of the ARRL and continued growth are based on the key components of our Affiliated Clubs and the VE program. We need to attract young energetic hams into our ranks. ARRL is truly an organization of diversity in many aspects.



Monte, and his wife June of 47 years, have 2 children: Tiffany, who lives in Bremerton and Lamont who lives in Dallas TX. He is employed full time by the State of Washington where he is a public safety communications manager. For the past six years he has served in the Washington State Guard. He is currently the Washington State RACES Officer and is working with emergency management professionals to prepare Washington ARES/RACES for Cascadia Rising 2016 which is a major earthquake exercise that will take place in June 2016.

**2015 is ...**  
**the ARRL's 101<sup>st</sup> year,**  
**~~SEA-PAC~~'s 33<sup>nd</sup> year,**  
**and the YLRL's 76<sup>th</sup> year**

## DX Luncheon Speaker

**Budd Drummond, W3FF**

**“From the other end of the pileup”**



**Budd Drummond, W3FF**, was licensed in the Summer of 1954. His main interests are in operating “mobile” from his recumbent trike but you might work him operating from his 1930 Model A Ford. Fifteen years ago, he developed the Buddipole antenna system. The commercial version is sold by Buddipole, Inc. of Hillsboro, Oregon. Most any day at 1600 UTC you can work him on 18157.5 KHz. Budd coordinates Buddies of the Caribbean, with regular suitcase Expeditions to the island nations of the Caribbean. He lives in northern California.

## YL Luncheon Speaker

**Cheryl Muhr, NØWBV**

**“If I ever get bored with this hobby, it will be my own fault!”**



**Cheryl Muhr, NØWBV**, has been licensed since 1993 and holds an Extra Class License. She has been an officer of many YL organizations, including: Colorado-YLs where she is currently Treasurer; and the Young Ladies’ Radio League where she is Editor of *YL-Harmonics* and Publicity Chair.

Cheryl loves the thrill of the chase and tries as many bands and modes as possible. She was YL columnist for *WorldRadio* and has been published in a number of Amateur Radio magazines. Cheryl has been on a number of DXpeditions. Her call signs include: T32YL, Eastern Kiribati; J3/NØWBV, Grenada; VP5/NØWBV, Turks and Caicos; KH4/NØWBV, Midway Island and JW/NØWBV, Svalbard.

## Mark Tharp, KB7HDX Eastern Washington Section Manager

**Mark Tharp, KB7HDX**, was first licensed in 1989 after enrolling in a novice class offered by the Yakima Amateur Radio Club. He was elected to the office of Vice-President in the fall of 1989 and served as club president from 1992 thru 1997. Mark has served in board level positions in subsequent years. Mark now holds an amateur Extra Class license. He is a Life Member of the ARRL and has held numerous ARRL volunteer positions. Mark has held Section level positions of EC, DEC, OOC, ASM and AD. Mark's other amateur radio activities include search & rescue, ARES/RACES, contesting, repeater building, hamfests' and being an Elmer. He feels it is important for amateur operators to be involved by promoting and participating in not only League activities but amateur radio as a whole.



## TNC Radio Cables

Custom made cables for most all terminal node controllers; SCS, Kantronics, AEA, Timewave, MFJ, PacComm, and others. Most all HF/VHF/UHF radios supported.

Billing by PayPal preferred with VISA, MasterCard support, personal checks are accepted. Shipping in 2-3 days worldwide.

Randy Hayden - W7TUT  
Woodburn, OR

randy.fha@gmail.com  
<http://www.qsl.net/w7tut/>

## SEA-PAC Feedback

We appreciate feedback on your experience at *SEA-PAC*. To share it with us, send us an email with your comments to:

[suggestions@seapac.org](mailto:suggestions@seapac.org)

Thank you for attending *SEA-PAC* 2015 and thank you in advance for taking the time to help us make *SEA-PAC* 2016 an even better experience!

SAME DAY  
SHIPPING



### RG8X COAX ANTENNA CABLE PL-259 MALE - MALE 50 FT.



50 ft. RG-8X antenna cable for Ham Radio and CB.

Shielded 50 ohm cable with molded-on strain relief and PL-259 plugs on each end.

The connections inside are soldered and the cable has all copper conductors. Double-shielded too!

**OUR PRICE: \$14.99**

Warranty: One year from wiredco.com

### LED STRIP SMT COOL WHITE LOW PROFILE 12VDC 20" 7W

This 20" LED strip light has surface mount SMD/SMT cool white "daylight" LEDs.

It is incredibly energy efficient, uses only 7 Watts of electricity while producing 590 lumens of light,

Each tube has a detachable power cord with on/off switch.



**OUR PRICE: \$22.00**

### 880LM CREE XM-L T6 LED ZOOMABLE FLASHLIGHT



This flashlight is made of high quality 6061T aluminum alloy. It has the CREE high power LED with a lifespan of up to 100,000 hours.

Super bright, blinding effect when set on self-defense mode. The front bezel is tactical enhanced.

**OUR PRICE: \$15.95**



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**2015 ARRL/TAPR** Digital Communications Conference

October 9-11 in Chicago, Illinois

Make your reservations now for three days of learning and enjoyment at the DoubleTree by Hilton Chicago – Arlington Heights hotel. The Digital Communications Conference schedule includes technical and introductory forums, demonstrations, a Saturday evening banquet and an in-depth Sunday seminar. This conference is for everyone with an interest in digital communications—beginner to expert.

Call Tucson Amateur Packet Radio at: 972-671-8277, or go online to [www.tapr.org/dcc](http://www.tapr.org/dcc)

## Hip Ham Shirts

*Bringing You the Best in Ham Radio Apparel*



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**SEA-PAC** Limited Edition T-shirts.  
Available at our booth while they last.

# SEMINAR SCHEDULE

**See Pages 20 & 21 for Seminar Synopsis**

*(use row number THEN column letter (e.g. "3A"))*

			Riverview A	Riverview B
Day	Period		A	B
Sat	1000-1050	1	Solar Power for Your Station (N1BEC)	PSK31 (K7AGE)
Sat	1100-1150	2	Implementing IRLP and Echolink using a Raspberry Pi (N7QNM)	U-tube: Present Yourself in a Way that Works (K7AGE)
Sat	1200-1250	3	Implementing an APRS Digipeater on a Raspberry Pi (N7QNM)	Getting the Most out of Mobile HF Contesting (WW7D)
Sat	1300-1350	4	Building Cheap Homemade Mesh Antennas (K7JLT)	Radio from the Summit (SOTA) (NS7P)
Sat	1500-1550	5	Telegraph Keys from 1845 to Present (N7CFO)	A Casual "DXpedition" (AA7UF)
Sat	1600-1650	6	Digital Signal Processing for Hams (W7FU)	Little Pistol University (W7RIS)
Sun	1000-1050	7		Portable Operation with Solar Power (KB7RHI)
Sun	1100-1150	8		Practical Uses of the Yaesu System Fusion C4FM Mode (W7PM)

# SEMINAR SCHEDULE

Riverview C	Seaside A	Seaside B	Seaside C
C	D	E	F
Activities For a Technician. What Can You Do? (W7QLO)	Cascadia Rising Exercise 2016 (W7SLS)	ARRL Lab Tour and Tales (W1RFI)	Operating Portable From Many Places (W7DGP)
Public Events, ARES, Working With Your Local Emergency Management Agency (KE7MAW)	MARS, Civil Air Patrol, CG Aux, State Defense Forces, Disasters, and You (AE7UM)	The ARRL's Centennial Celebration is Over - Now What? (K9JF)	How to Get Youth Involved in Amateur Radio (K7APS)
Repeaters, Nodes etc. What Are They and How to Use Them to Maximize Your Contacts (K7DKK)	EYEWARN® Disaster Information Gathering Net (NO7DE)	Dxpeditions to Alaskan Islands (K6ST)	FCC Rules (K2ASP)
Why Upgrade to General? (W7UUU)	Some Thoughts On How You Can Enhance Your EMCOMM Response (N7KGA)	ARRL Forum (K7CEX)	Transmitter Hunting: Fun for the Whole Family (WB6BYU)
Digital Technicians - Of Course You Can Do It! (WR5J)	Encouraging Youth in Ham Radio (N7QMT)	Techniques to do Well in Contests and Still Have Fun (KK7YC)	RF Propagation (KD7RUS)
FUNcube-1 (AO-73) 2-Meter Satellite Telemetry (WA9ONY)	Computer Logging with DXKeeper and Others (KT7G)	HF Bicycle Mobiling (W3FF)	Historic YLs and the Young Ladies Radio League (AC7UH)
	Inside HQ (WJ1B)	How to Succeed on 10m (W7CAR)	D-Star (N7SS)
		Radio Frequency Interference (RFI) (W1RFI)	

# SEMINAR SUMMARIES

<b>1A</b>	Tom Herman (N1BEC): Want to cut ties with the power company for your station? Come learn how, and what you need to know for success. Besides, you want your station on the air during an emergency when the power is out.
<b>1B</b>	Randy Hall (K7AGE): Operating digital modes offers more ways to converse with distant stations even under poor band conditions. Learn how to use a variety of modes with simple equipment.
<b>1C</b>	Steve McKeen (W7QLO): Learn about the diverse things you can do with the most common license level: technician. Be prepared for fun, education, and new opportunities.
<b>1D</b>	Scott Scheirman (W7SLS): The Cascadia Subduction Zone, just west of OR, WA, and BC, was the source of several catastrophic earthquakes over the past 3500 years. Learn about a large-scale 2016 regional emergency exercise.
<b>1E</b>	Ed Hare (W1RFI): The ARRL Lab personnel test new equipment, helps hams throughout the nation solve RFI and other technical problems, and offers advice to industry. Learn what goes on behind the scenes.
<b>1F</b>	Larry Ryan (W7DGP): Join Larry, W7DGP, while he shares his adventures operating portable in hotels around the world on business trips, camping vacations in National Parks, portable satellite operation and
<b>2A</b>	Clay Jackson (N7QNM): Come see how to use raspberry Pi for Echolink and IRLP.
<b>2B</b>	Randy Hall (K7AGE): U-tube seems to be everywhere, and many videos were poorly done. Learn how to improve your video and draw viewers.
<b>2C</b>	Donna Pearson (KE7MAW): Public events give you a chance to improve your skill and help your community. Learn various ways to use repeaters.
<b>2D</b>	Mark Willson (AE7UM): Learn how volunteers help save lives and protect our communities working with the military, civil authorities and other auxiliaries. Examples: are MARS, CAP, SDF and USCGAux.
<b>2E</b>	Jim Fenstermaker (K9JF): Now that the ARRL Centennial is history, where do we go from here in our second century? Come join the dialog on this fun topic and add your ideas to the mix.
<b>2F</b>	Phil Sohn (K7APS): Learn some tried methods that attract youth to amateur radio. Help get the word out to youth about this fun and interesting hobby. Learn from successes.
<b>3A</b>	Clay Jackson (N7QNM): Raspberry Pi computers provide a platform to develop a wide variety of tools and learn during the building process. Learn how N7QNM built a digipeater from his Pi.
<b>3B</b>	Darryl Holman (WW7D): Why sit at home during a contest when you can drive, see beautiful country, and talk to people who want to talk to you? Learn how to get started and join the fun.
<b>3C</b>	Stan Nelson (K7DKK): Learn how to effectively use the variety of repeaters on the air.
<b>3D</b>	John Gaynor (NO7DE): A disaster just started, and your EOC wants to know more information quickly. Learn how Clark County, WA collects data from community hams to gather information quickly.
<b>3E</b>	Barry Bettman (K6ST): Exotic DXpeditions are not always in other countries. Learn how to plan and carry out a DXpedition successfully, and live to tell about it.
<b>3F</b>	Phil Kane (K2ASP): Discuss aspects of the FCC rules in a Q&A format.
<b>4A</b>	John Hendricks (K7JLT): Building antennas is a great way to learn more about antennas, and you can have fun building your own. Come learn how.
<b>4B</b>	Phil Shepard (NS7P): Summits on the Air (SOTA) is a growing ham radio activity. Learn how to operate from peaks, or hunt for those who ascend the summits.
<b>4C</b>	Dave Ellison (W7UUU): Technician privileges offer many opportunities for fun, learning, and service. Learn why upgrading can increase your abilities and fun.
<b>4D</b>	Ralph Javins (N7KGA): Emergencies come up quickly, and you may need to quickly transition from fun operating to community support. Learn some principles to help you succeed.
<b>4E</b>	Jim Pace (K7CEX); Bonnie Altus (AB7ZQ): The ARRL represents hams in the United States. Come interact with League officers, Staff, Directors, and Section volunteers.
<b>4F</b>	Dale Hunt (WB6BYU): Hunting for hidden transmitters can be fun and challenging, and has useful applications. Come learn how, and try it yourself with a short practice hunt after the seminar.

# SEMINAR SUMMARIES

<b>5A</b>	Lynn Burlingame (N7CFO): Lynn collects telegraph keys of various kinds. He will show photos and discuss the various kinds of keys used since Samuel Morse sent his first message. Learn some history and have fun.
<b>5B</b>	Jerry Marsh (AA7UF): Have fun with ham radio in a foreign country using low power equipment. Learn what it takes to plan, ship your gear, and have fun operating.
<b>5C</b>	Curt Black (WR5J): Digital modes offer many advantages over voice. Learn what you need for success, and how to set up your gear.
<b>5D</b>	Delvin Bunton (N7QMT); Russ Mickiewicz (N7QR); Frank Gruber (KB7NJV): Join a discussion and share your ideas on ways we can encourage youth to consider ham radio as a hobby and electronics as a vocation.
<b>5E</b>	Ronnie Burnett (KK7YC): Learn some techniques to have fun and do well in contests from someone who does both.
<b>5F</b>	Tim Kuhlman (KD7RUS): Radio waves propagate unevenly (seems unfair) and vary over time, space, and frequency. Learn the basics about radio waves and how they behave.
<b>6A</b>	John Petrich (W7FU): GNU Radio Companion is an open source graphically based DSP software application. Curious hams can write software for their own Software Defined Radio (SDR) projects with the app.
<b>6B</b>	Mike Shelby (W7RIS): Small lot with little aluminum in the air? Even so, you can work DX and contests. Learn ways to maximize your station and fun with a small station.
<b>6C</b>	David Haworth (WA9ONY): Amateur satellites offer interesting ways to communicate and learn about our world. Come find out how.
<b>6D</b>	Rick Smith (KT7G): Logging contacts on computer offers many advantages over paper. Learn about log programs used by many DX-ers and options that fit your needs.
<b>6E</b>	Budd Drummond (W3FF): How about working DX while pedaling your three-wheeled bike? Come see how Budd has fun every day. If the weather is nice, this seminar will be held outside at the Riverside Amphitheater.
<b>6F</b>	Barbara Yasson (AC7UH): Ham ranks included women (YLS) from the beginning. Learn more about the history behind women in the ham world and the YL Radio League.
<b>7A</b>	
<b>7B</b>	Mark Breakey (KB7RHI): Learn how to use the sun for your portable operations, and what you need to get started. Discuss panels, batteries, and keeping your power curve high.
<b>7C</b>	
<b>7D</b>	Harold Kramer (WJ1B): Get a tour of ARRL HQ from one who walks the halls. Learn about the people and what they do for amateur radio....
<b>7E</b>	Dave Walton (W7CAR): 10m can go from "dead" to really alive in a short time. Learn what you need to have fun on this magic and fickle band.
<b>7F</b>	Scott Honaker (N7SS): D-Star is now a mature digital mode but there are still new developments and it keeps getting better. Come see how it works and hear the latest news.
<b>8A</b>	
<b>8B</b>	Marc Peterson (W7PM): Yaesu repeaters are making some inroads in the repeater community. Learn more about the new modes and operating potential.
<b>8C</b>	
<b>8D</b>	
<b>8E</b>	Ed Hare (W1RFI): Many of us experience some kind of radio frequency interference (RFI) at times. Learn more about this interesting topic and ways to alleviate the problems.
<b>8F</b>	

## Edward Stuckey, AI7H Idaho Section Manager

**Ed Stuckey, AI7H**, was originally licensed as KNØINT back in 1957. During his working career, he was a Naval officer for six years, then as an industrial engineer and project manager for Nestlé USA for 33 years, principally located in the Los Angeles area. In 2004, Ed moved to Idaho and has loved every minute of it.



Ed is currently a member of Kootenai Amateur Radio Society (KARS) located in Coeur d'Alene, ID. He was elected the Idaho ARRL Section Manager in 2009, spending oodles of time doing all the things that a SM does. Recent special attention has been focused on strengthening the emergency communications organization in the state. While not SM'ing, he is a local Elmer, getting two or three new hams established each year; and an avid home-brewer (of radio stuff), particularly interested in antenna and transmission line installation and safety. Operating activities include low-band DXing (especially 160 Meters), NTS nets, occasional contesting, and generally roaming the bands looking for a casual QSO, mostly on CW.

## Amateur Radio Demonstration Station



The Oregon Tualatin Valley Amateur Radio Club will operate an amateur radio demonstration station, W7OTV, on Saturday, June 6<sup>th</sup>, from 9:00 am to 4:00 pm from the club's communication trailer. The station will be located near the front entrance at The Seaside Convention Center. Amateur Radio Operators attending SEA-PAC

are welcome to stop in and make a few contacts – or just come by for an eyeball QSO. Non-hams are welcome to observe – and operate – the station with the assistance of an experienced amateur licensee.

# ARRL Second Century Campaign

The Second Century Campaign, created in honor of ARRL's Centennial, provides individuals and clubs with the opportunity to keep ARRL as active and vibrant in its second hundred years as it has been in its first century!

Contributions to the Campaign help to build the ARRL Endowment, making your Amateur Radio organization fiscally strong. Your donation will help ensure that ARRL will continue to be at the forefront, providing Amateur Radio services and programs, keeping our frequencies safe, and providing support for public service, DXers, and more. . .

If you have not already done so, please consider making a gift to the Second Century Campaign. For additional information, go to [www.arrl.org/arrl-second-century-campaign](http://www.arrl.org/arrl-second-century-campaign) or contact Lauren Clarke, KB1YDD, at [lclarke@arrl.org](mailto:lclarke@arrl.org) or 860-594-0397.



## Oregon Office of Emergency Management Communications Trailer



The Oregon Office of Emergency Management (OEM), located in Salem, Oregon maintains an Emergency Communications Trailer, which may be used for Continuity Of Operations, in the event that the OEM main facility is unusable for any reason. It is also used for events that necessitate a base of operations for Amateur Radio Emergency Services (ARES). The ARES unit located at the OEM, call sign

W7OEM, participates not only in disaster emergency communications, but significant state events as well, such as preparedness fairs, county airshows, marathons & disaster drills and exercises. OEM coordinates state resources in the event a disaster exceeds the capability of a local or tribal government entity to respond to the disaster. It is vital that the state and the counties have a reliable way to communicate. The OEM primarily uses Amateur Radio volunteers (Hams) who staff this facility as a backup coordination and communications center.

## Jim Larson, AL7FS Alaska Section Manager

**Jim Larson, AL7FS**, was originally licensed as WA0LPK from 1965-1985 and as of March 2015 has been a ham for 50 years. Jim is a member of the Anchorage Amateur Radio Club (AARC) and the Elmendorf (AFB) Amateur Radio Society. Previous leadership roles included eight years as President or Vice President of AARC. He has been active as a radio operator in Shaktoolik, Alaska for the Iditarod Dog Sled Race and was the Race Communications Director for one year. Jim is a retired Lt Col, USAF and worked for AT&T Alascom for 16 years.



Jim is currently a charter member on the Alaska Interoperability Communications Committee, a State of Alaska organization. He is involved with the Alaska State Emergency Operations Center and interfaces ARES with the State of Alaska Emergency Planners. As a 37 year Alaska resident, Jim has participated in HF from 160-10 meters (CW and SSB), packet, PACTOR, satellite, 6 meter, UHF, VHF, ATV, EME (2 meter WAS #36 from Alaska), DX, and QRP. QRP has lasted the longest and the strongest - 1970 to the present. He is a member of the Pacific Northwest QRP Group in the Seattle area and is an A-1 Op.



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## SEA-PAC 2015 PIN Design Winner

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**David Murphy, KF7MLE**, has been a ham in the Pacific Northwest since October 2010. Becoming licensed was something he wanted to do since college back in that day using his CB radio.

His original intent was to have a radio that reached within a 50 mile radius of his QTH. He has far exceeded that, with contacts not only in the USA but many areas

abroad. David's primary interests in the hobby are working and helping with repeaters, IRLP and HF. The hobby allows him, as an engineer for a local hospital, to assist in the emergency communications management team.

David is asked quite frequently what he most enjoys about the hobby. Does he have any regrets? His reply is that contacting other hams on repeaters while driving our road systems is very enjoyable. His biggest regret is not starting the hobby earlier on in his life. It's a great feeling to make a contact that turns into a friendship, listen to hams ask about a person they have not heard from in a while, or receive a personal phone call from someone you might have talked to on a radio but never met. David will always cherish the friendships he has made in the last few months and the new ones still to come.

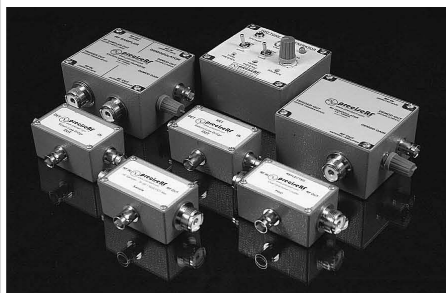


### H.R. 1301 - Co-sponsors Needed!

Once again, a bill has been introduced in the U.S. House of Representatives to extend the principle of reasonable accommodation of Amateur Radio antennas to all types of land use regulations. Our challenge now is to find enough cosponsors that the bill will be taken seriously in the 114<sup>th</sup> Congress. The most promising approach, and one that we ask all ARRL members who are in a position to do so to pursue, is to use an established relationship with your Congressman to ask for their co-sponsorship of H.R.1301. Even if you don't have such a relationship already, please, write or call him or her. Asking for support of the legislation isn't enough. Unless he or she is a member of the Committee on Energy and Commerce, even a promise that they will vote for the bill if it comes to the House floor isn't enough. Co-sponsors are what we need, and the sooner the better. *David/K1ZZ ARRL CEO*

Stop by the ARRL display in the foyer and write your letter to Congress in regards to H.R. 1301. The PC program provided there takes the members address and generates letters asking for support to all of the Representatives in the members home area.

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### Seamist Meeting Room Schedule

#### Saturday

1200-1250	Navy-Marine, Army, USAF MARS Meeting	Mark Willson
1300-1350	Oregon ARES Meeting	Vince Van Der Hyde
1500-1550	Oregon Section Cabinet Meeting	Everett "Ev" Curry
1600-1650	National Traffic System Meeting	Scott Gray

#### Sunday

1030-1200	ARRL NW Division Leadership Meeting	Jim Pace, K7CEX
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### SEA-PAC Flea-Market

Please take time to visit the numerous "flea-marketeers" who brought ham treasures galore to share with others. Their excess might just be the thing you need for a project!

You may also want to fill out a "Yes" card to apply for space next year. The Fleamarket coordinators will be passing them out during the event. Please return the card to the Registration Desk before you leave. Throughout the year, please check the SEA-PAC web page periodically for the opening date for 2016 Fleamarket table registrations.



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## George Forsyth, AA7GS Montana Section Manager



Licensed nearly 30 years, George is an Extra Class licensee. He has committed himself to build the Montana Section into a vibrant community where everyone is involved and recognized.

An ARRL Life Member with 26 years as a Volunteer Examiner. He served as President (five terms) of the Great Falls Area Amateur Radio club and Director of the Glacier/Waterton Hamfest.



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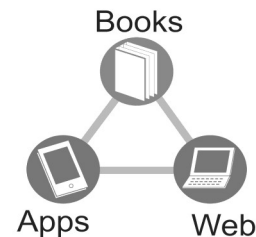


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### **Everett Curry, W6ABM Oregon Section Manager**



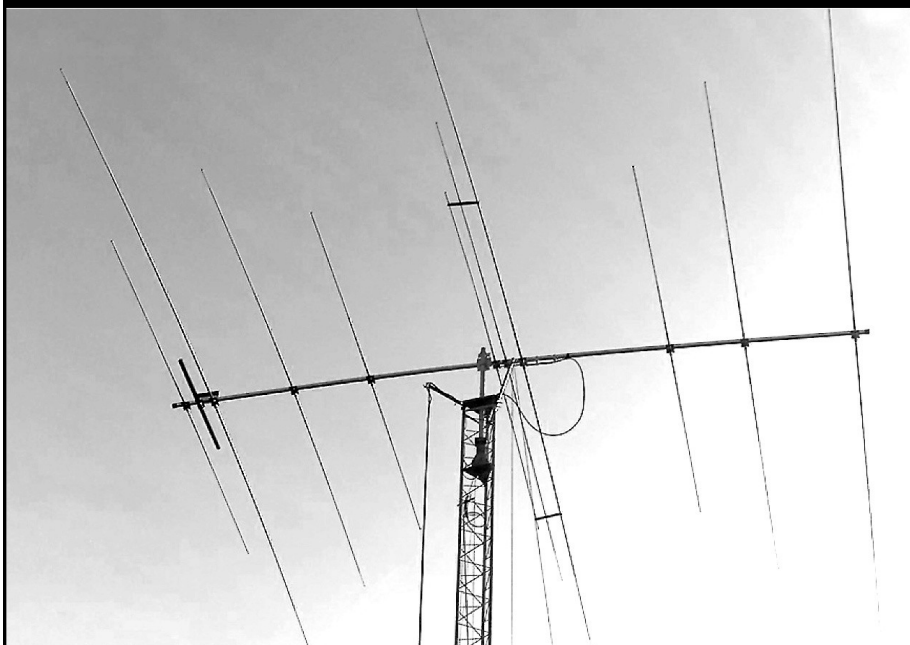
**Everett Curry, W6ABM**, holds an Extra class license and received his first amateur radio license in 1956. Everett's primary interests in amateur radio are public service and encouraging hams to get on the air and upgrade to the next level of license.

Everett has served as the Oregon Section Manager since January, 2014.

He serves OTVARC as editor for The OSCILLATOR and electronic communications, as well as Secretary for many years. Everett also serves as the Master of Ceremonies for the Annual *SEA-PAC* Banquet.

Personal or business information collected as part of this event is not shared or distributed in any way outside of *SEA-PAC*.

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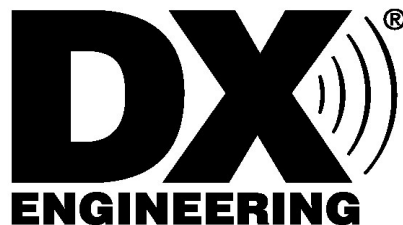
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Flea Market: [fleamarket@seapac.org](mailto:fleamarket@seapac.org)

Registration: [registration@seapac.org](mailto:registration@seapac.org)

Seminars & Workshops: [seminars@seapac.org](mailto:seminars@seapac.org)

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**SEA-PAC** Web Site: <http://www.seapac.org>

Mailing Address: SEA-PAC Convention  
Post Office Box 25466  
Portland, Oregon 97298-0466

### **Chuck Mickley Memorial Scholarship**

The Oregon Tualatin Valley Amateur Radio Club sponsors a scholarship for licensed Amateur Radio Operators. The Chuck Mickley Memorial Scholarship was created to the memory of Charles R. "Chuck" Mickley, a dedicated club worker and ham radio operator. The Scholarship is intended to further the education of, and honor, a student who holds a current Amateur Radio license. The Scholarship is administered by the Board of Directors of Oregon Tualatin Valley Amateur Radio Club through a Scholarship Committee.

The Club intends to award the scholarship annually when a qualified candidate completes the necessary application. Currently, the scholarship award is \$1,000.00, subject to available funds. The qualified candidate will be a licensed amateur radio operator who plans to be a full-time student (at least 12 credit hours) in the following academic year. The candidate will have a cumulative high school or college GPA of at least 3.00 out of 4.00, or equivalent college entrance requirements. The candidate is expected to enroll, or be enrolled, in a 2 or 4 year degree program at an accredited college or university. Priority is given to those with a college major in the fields of: Physical Sciences, Math, Engineering, Computer, or, Education in one of the above. The candidate is expected to have a well-rounded student and participation pattern in other school and community activities, and be a U.S. citizen. Priority is given to residents of Oregon counties: Clackamas, Multnomah, Washington and Yamhill.

Correspondence may be directed to: OTVARC Scholarship Committee  
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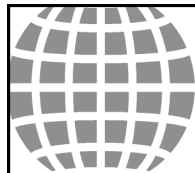
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## RAGS Country Store

As a service to flea market buyers the RAGS (Radio Amateurs of the Gorge) club provides a testing center for equipment. Power supply, voltmeter, service monitor, oscilloscope and frequency counter are a part of our testing ability. Check out what you are considering buying. Have a piece of gear to sell? We consign for you and at a reasonable charge. Neither RAGS nor Sea-Pac can accept responsibility for the condition of any equipment nor can be held responsible for any damage as a result of use of test gear. As an additional service to the amateur radio community, RAGS also provides a Country Store where rigs and other equipment will be displayed for sale. Remember, your boat anchor is someone else's dream machine!

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Darwin Durr, K7PSD  
Mel Sutton, KB7PVW  
Rick Banton, K7RDB  
Candice Bucsek, KF7WPQ  
John Bucsek, KE7WNB  
Everett Curry, W6ABM  
Mike Durr, KA7PWZ  
Debbie Schaeffer, KG7DZD  
Jim Schaeffer, KB7ADH  
Linda Sutton, KC7YTD  
Barb Winner

## REGISTRATION

Michael Nelson, N7IQM  
Melissa Nelson, KF7JIK  
Jerry Sheffield, N7THL

## SECURITY

Bruce Bullis, KG6CI

## WORKSHOPS & SEMINARS

Delvin Bunton, N7QMT  
Mary Berg, N7TRW  
Richard Berney, KE7AOA  
Steve McKeen, W7QLO

## Social Media

Pat Roberson, W7PAT

## Volunteers Coordinator

Kristin Tomson, K7KWT

## SET-UP EXHIBITORS

Ken Woolston KE7OSO  
Steve Brice, NA7T  
Stephen Coan, KA7MOW  
Kathy McClanahan, N7YBN  
Richard McClanahan, KC7GBU  
Geoff Apgar, W7JEZ  
Michael Williams, N7RDV  
Ivan Loock, N7PRM  
Stephen Tarr, KD7MRX

## SETUP-FLEA MARKET

Lynn Hurd, WB7UNU  
Tom Hill, WA3RMX  
Dave Wright, N7DWL

## V.E. TESTING

John Bucsek, KE7WNB  
James Gregg, N7JRG  
G. Bruce Maxwell, N5GB  
Sean Herring, AF7LP  
Benton Holzwarth, KF7WLP  
Richard Morgan, KD7GIE  
Russell Mickiewicz, N7QR

## HAM DEMO STATION

Ron O'Conner, KD7VIK  
Russ Mickiewicz, N7QR

## TALK-IN STATION

STARS (Seaside) and Sunset  
Empire (Astoria) A.R.C.

## NEW HAM — "FIRST STATION"

STARS (Seaside) and Sunset  
Empire (Astoria) A.R.C.

## NEW HAM — Distant Ends

STARS (Seaside) and Sunset  
Empire (Astoria) A.R.C.  
Columbia Lightship, Astoria, OR



### **The Wilse Morgan, WX7P, Memorial ARRL Northwestern Division Scholarship**

This scholarship fund has been endowed through the generosity of the members of the ARRL Northwestern Division in memory of Wilse Morgan, WX7P (SK). Wilse lived in Alaska and Washington and was deeply involved in ARRL and the many Amateur Radio activities in the Northwestern Division. Every year, a scholarship in Wilse's memory is awarded to an eligible young ham living in the Northwestern Division (Alaska, Idaho, Montana, Oregon, or Washington) active in emergency communications, contesting, DXing, or other Amateur Radio activities, and who is pursuing higher education to study engineering, medicine, science, or business.

To contribute to this scholarship, please go to [www.arrl.org/arrl-foundation-donation-form](http://www.arrl.org/arrl-foundation-donation-form) or contact Lauren Clarke, KB1YDD, at [lclarke@arrl.org](mailto:lclarke@arrl.org) or 860-594-0348.

If you know of a young person interested in applying for the Northwestern Division Scholarship, please have him or her visit [www.arrl.org/scholarship-program](http://www.arrl.org/scholarship-program) to learn more.

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